QUIL CEDA VILLAGE: UNDERGROUND INJECTION CONTROL

1.1 Purpose and Scope

The object and purpose or this report is to detail the results of the analysis, sampling, and monitoring of the quantity and quality of the wastewater effluent and the UIC from the Kubota Membrane treatment plant operated by the Quil Ceda Village, Tulalip Indian Reservation, Snohomish County, Washington from July 31, 2007 through October 4, 2007.

The Quil Ceda Village UIC Disposal System is currently "authorized by Rule" under 40 CFR Section 144.24 and 144.84(a). This rule allows our system to exist and operate for a valid period not to exceed (5) years for capacities not to exceed the maximum hydrologic capacity of 250,000 gallons per day. We are in the third quarter of the fifth year under this rule and are averaging about 154,900 gallons per day.

The Quil Ceda UIC disposal system must comply with, among other requirements, 40 CFR Section 144.12(a) which prohibits any underground injection that may endanger any underground source of drinking water. The rule further requires that the operator monitor the effluent to document compliance with those Federal Drinking water standards, and the report non-compliance within 24 hours.

1.2 Site Locations and Descriptions

The Borough of Quil Ceda Village UIC has 19 groundwater monitoring wells collocated with 19 injection vaults and each vault has ten injection points within the infiltration field. These wells are identified and located in Quil Ceda Village map on EXHIBIT A. In addition, there are three monitoring wells on the east side of I-5 and four monitoring wells within the borough identified as B3, B4, B5 and B7. We have two monitoring sites C1 and C2. The monitoring wells are constructed with Schedule 40 PVC in 11 inch bore. The I.D. is a 2-inch with varied depths, well screen with a .010 slot, and PVC slip cap. The annulus seal in a medium bentonite chip with varied depths, but around sixteen feet.

1.3 Sampling and Analysis

Field Testing:

Our class V disposal system must comply with, among other requirements, 40 CFR Section 144.12(a) which prohibits an underground injection that may endanger an underground source of drinking water. Monitoring of water quality allows us to detect trends and interpret the physical parameters of our effluent and the ground water we are injecting into. The parameters we monitored in the field this period were PH and Conductivity. We call this field testing, because in the past we rented equipment and did

the test our self. Samples are now collected and taken to the CCI Analytical Lab in Everett, Washington to be tested with the other samples.

- 1. PH: This is a measure of how acidic or basic a solution is. The ph is affected by minerals dissolved in the water, aerosols and dust from the air, respiration from plants and animals and the manmade wastes. The scale is 0.0 (highly acidic) to 14.0 (highly basic). The ph levels are critical to the survival of aquatic plants and animals. Many species have trouble surviving with ph levels below 5.0. The lowest recorded this period was at N-7 and that was 5.6 during the October 4, 2007 testing. The highest was at the Wastewater Treatment Plant and that was 7.5 during the September 5, 2007 testing. The standards are 6.5 to 9.0. The ph leaving the plant ranged from 6.9 to 7.5 so the lower ph in the field should not be caused by the effluent.
- 2. Conductivity: This is a measurement of a solution's ability to conduct an electrical current. It is the item dissolved in the water, which determines the level of conductivity. Dissolved solids such as chloride, nitrate, phosphate anions, (ions that carry a negative charge) or sodium, magnesium, calcium, iron and aluminum cations (ions that carry a positive charge) all affect the conductivity in water. Organic compounds like oil, phenol, alcohol, and sugar do not conduct electric currents well and therefore have a low conductivity when in water. By comparing conductivity readings on a regular basis on can tell what changes have occurred. The wells reported a range of 41 in b-3 (10/4/2007) to 580 in n-9 (9/5/2007), very similar to previous test. The plant reported a range from 510 in October 4, 2007 to 1100 in September 5, 2007. the reason for the high range is due to the ammonia count on the discharged effluent. This is caused by lack of dissolved oxygen during treatment process. On 10-4-2007 the results were 510 and on 7-31-2007 the results were 530. The maximum limit is 700.

The complete results are shown in EXHIBIT B.

Lab Testing

The lab testing was conducted by CCI analytical Laboratories, Onc. Everett, Wa. The samples were collected in the field and transported to CCI Lab. The chain of custody and collection procedures required by the Standard Operating Procedures, Tulalip Tribes, and May 2002 were followed.

The samples were tested for Ammonia, Nitrate, Nitrite, TKN, Total Phosphorus and Phosphate.

The overall nitrate levels were high in the wells on sampling period, 10/4/2007, with N-7 at 180 mg/L also N-8 with 210 mg/L. The plant Nitrate level on 10/4/2007 was at 2.3 mg/L. The plant was not the cause of the nitrate level. The plant did have a high nitrate level on 7/31/2007 with an amount of 21 mg/L but was soon corrected in the 9/4/2007 at

0.87 mg/L and again on 10/4/2007 testing which was 2.3 mg/L. The Plant Phosphate levels were, 7/31/2007 = 2.6 mg/L, 9/5/2007 = 22 mg/L and on 10/4/2007 = 0.19. The complete results are in EXHIBIT C.

1.4 Hydrological

The monitoring of the hydrologic capacity and the ground water levels were checked and recorded in EXHIBIT B. The water levels continue to demonstrate that the effluent does not affect the water levels. We used the four north wells during the entire period.

1.5 Precipitation

The Arlington Air Port (North) cumulative average for the last five years was 7.58 inches and the Boeing Field (South) was an average of 5.6 inches.

1.6 Conclusion

The Quil Ceda UIC continues to work well into the ending of our fifth year. The nitrates are up and down with the one spike in July, 2007. The high conductivity is still being watched. Its high actually decreased from 1100 in September then back down to 510 in October. The ground water level is within limits. The overall report is good.

Lukas Reyes

Q.C.V Utility And Environmental Services

Utilities Superintendent.

Report Reviewed By:

Thomas W. Gobin

Q.C.V Utility And Environmental Services

Utilities Manager

Thomas McKinsey
Special Projects Manage

John McCov

Q. . V General Manager.

EXHIBIT A: Quil Ceda Village

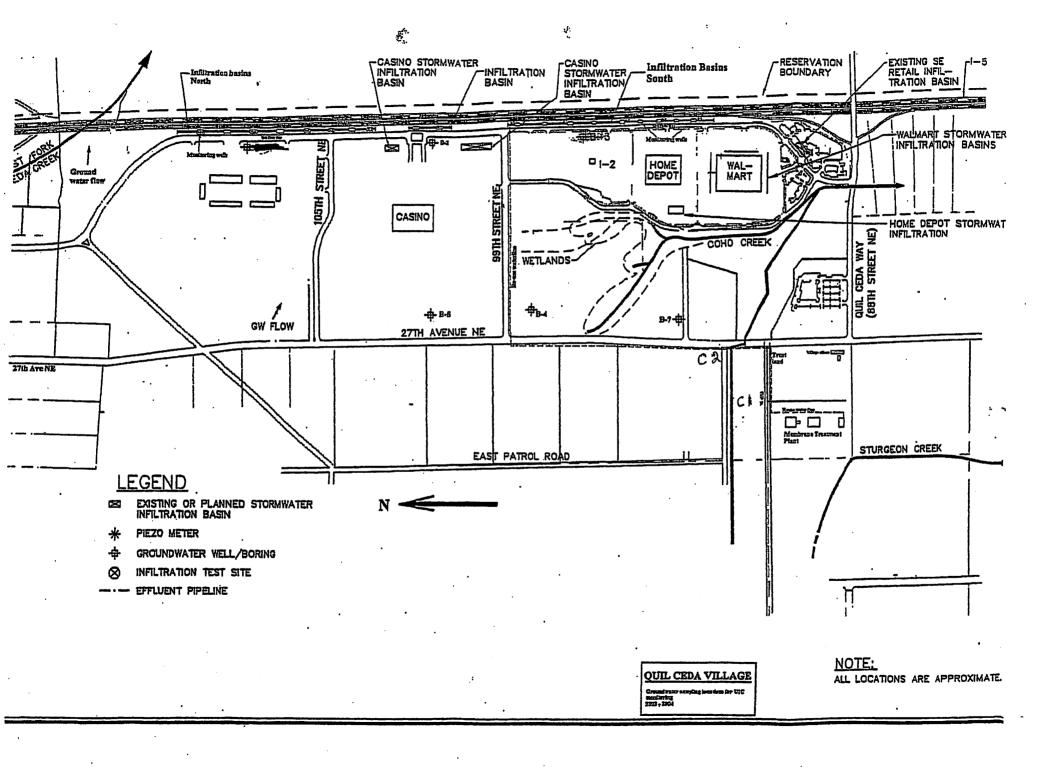


EXHIBIT B: FIELD REPORT & WELL DATA

Quil Ceda Village UIC

Date.	Location	Wate	r ELE	PH		Conductivity	Meter reading
7/31/2007	N-7	N/A			5.7	430	N/A
	N-8	N/A			5.9	520	N/A
	N-9	N/A	i		5.9	500	N/A
	C-1	N/A			6.4	460	N/A
	C-2	N/A			6.8	170	N/A
	B-3	N/A			6.1	120	N/A
	B-5	N/A			6.2	110	N/A
	PLANT	N/A			6.4	530	N/A
9/5/2007	N-7	l	13.5		6.4	450	27191500
	N-8		13.8		6.5	490	16384100
	N-9		13.8		6.5	580	16302500
	N-10		13.2	N/A		N/A	14720500
	C-1	N/A		N/A		N/A	N/A
	C-2	N/A			6.7	200	N/A
	B-3		13.1		6.7	43	N/A
	B-5		4.9		6.3	110	N/A
	PLANT				7.5	1100	N/A
10/4/2007	N-7		13.5		5.6	810	28555400
	N-8		13.94		6.1	850	17285000
	N-9		13.98		6.4	750	17231900
	C-1	N/A			5	130	N/A
	C-2		8.3		6.9	760	N/A
	B-3		13.5		6.7		N/A
	B-5		4.65		6.2		N/A
	PLANT	N/A			7.1	510	N/A

W	eekly	Meter	Reading
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Quil Ceda Way: UIC

1 ... 9/5/07

Present at site: Special Projects

Weather: CleAR

Temp OF + Weather

Well#	Time:	Depth to Water: (E/E)	Total Gals meter Read	Weekly Gals	Depth + or -
N-7	9:45	13.5	21191500.		
N-8	9:55	13.8	16384/00		
V-9	10:03	13.8			
N-10	10:10	13.2	14720500		
B-3	10:30	13.1	N/A		· · · · · · · · · · · · · · · · · · ·
B-5	10:45	13.1	NA		
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		ecial Projects Department	·		

Luc: 10-4-07

Present at site: Special Projects

Tultip Tribes of Washington: Special Projects Department

Weather: Clean

Temp 53

Weather

Well#	Time:	Depth to Water:	TOTAL METER Read	Weekly Gals Depth + or -
N-7	10:00	13.5	28555400	-1363900
N-8	9:45	13.944	17285000	900,900 9 2 9400
N-9	9:35	13.97/8	17231900	9 29400
		•		, .
B-3	10:20	13.5	NA	
B-5	10:35	4.61/2	N/A	
<u>C-2</u>	11:00	8.3	NA	
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EXHIBIT C: CCI ANALYTICAL REPORTS



CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

9/20/2007

8802 27TH AVE NE TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED: 0709008 9/5/2007

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: CLIENT PROJECT ID: 2007EFFWQ

TOM GOBIN

CLIENT SAMPLE ID: 9/5/2007 9:45 N-7

CCIL SAMPLE #: -01

DATA RESULTS							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
pH	SM-4500-H	6.4	pH UNITS	9/5/2007	HJK		
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	25 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	9/6/2007 9/6/2007 9/6/2007	CEO CEO		
Conductivity	EPA-120.1	450	UMHOS/CM	9/19/2007	DLC		
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.025 ND(<0.200) 0.084	MG/L MG/L MG/L	9/7/2007 9/13/2007 9/13/2007	ARI ARI ARI		

^{• &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES.

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE

TULALIP, WA 98271

DATE:

9/20/2007

CCIL JOB #:

0709008

DATE RECEIVED: WDOE ACCREDITATION #: 9/5/2007 C142

CLIENT CONTACT:

TOM GOBIN

CLIENT SAMPLE ID:

CLIENT PROJECT ID: 2007EFFWQ 9/5/2007

N-8

CCIL SAMPLE #:

-02

DATA RESULTS						
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY	
pH	SM-4500-H	6.5	pH UNITS	9/5/2007	HJK	
Nitrate	EPA-300.0	15	MG/L	9/6/2007	CEO	
Nitrite	EPA-300.0	ND(<0.15)	MG/L	9/6/2007	CEO	
Phosphate	EPA-300.0	ND(<0.07)	MG/L	9/6/2007	CEO	
Conductivity	EPA-120.1	490	UMHOS/CM	9/19/2007	DLC	
Ammonia	EPA-350.1	0.067	MG/L	9/7/2007	ARI	
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	0.20	MG/L	9/13/2007	ARI	
Total Phosphorous	EPA-365.1	0.079	MG/L	9/13/2007	ARI	

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[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

9/20/2007

8802 27TH AVE NE TULALIP, WA 98271 CCIL JOB #:

0709008

DATE RECEIVED: WDOE ACCREDITATION #: 9/5/2007 C142

CLIENT CONTACT:

TOM GOBIN

CLIENT SAMPLE ID: 9/5/2007

CLIENT PROJECT ID: 2007EFFWQ

N-9

CCIL SAMPLE #:

-03

DATA RESULTS							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
pH	SM-4500-H	6.5	pH UNITS	9/5/2007	HJK		
Nitrate	EPA-300.0	49	MG/L	9/6/2007	CEO		
Nitrite	EPA-300.0	ND(<0.15)	MG/L	9/6/2007	CEO		
Phosphate	EPA-300.0	1.3	MG/L	9/6/2007	CEO		
Conductivity	EPA-120.1	580	UMHOS/CM	9/19/2007	DLC		
Ammonia	EPA-350.1	0.21	MG/L	9/7/2007	ARI		
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	0.23	MG/L	9/13/2007	ARI		
Total Phosphorous	EPA-365.1	0.58	MG/L	9/13/2007	ARI		

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CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE TULALIP, WA 98271

DATE: CCIL JOB #: 9/20/2007

DATE RECEIVED:

0709008 9/5/2007

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: CLIENT PROJECT ID: 2007EFFWQ

TOM GOBIN

CLIENT SAMPLE ID: 9/5/2007 C-2

CCIL SAMPLE #:

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-	114

DATA RESULTS						
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY	
pH	SM-4500-H	6.7	pH UNITS	9/5/2007	HJK	
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	0.32 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	9/6/2007 9/6/2007 9/6/2007	CEO CEO	
Conductivity	EPA-120.1	200	UMHOS/CM	9/19/2007	DLC	
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.074 0.63 0.18	MG/L MG/L MG/L	9/7/2007 9/13/2007 9/13/2007	ARI ARI ARI	

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES.

APPROVED BY:

Pol Bagan

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE TULALIP, WA 98271 DATE:

9/20/2007

CCIL JOB #: DATE RECEIVED: 0709008

WDOE ACCREDITATION #:

9/5/2007 C142

CLIENT CONTACT: CLIENT PROJECT ID: 2007EFFWQ

TOM GOBIN

CLIENT SAMPLE ID:

9/5/2007

B-3

CCIL SAMPLE #: -05

DATA RESULTS							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
pH	SM-4500-H	6.7	pH UNITS	9/5/2007	HJK		
Nitrate	EPA-300.0	6.3	MG/L	9/6/2007	CEO		
Nitrite	EPA-300.0	ND(<0.15)	MG/L	9/6/2007	CEO		
Phosphate	EPA-300.0	ND(<0.07)	MG/L	9/6/2007	CEO		
Conductivity	EPA-120.1	43	UMHOS/CM	9/19/2007	DLC		
Ammonia	EPA-350.1	0.048	MG/L	9/7/2007	ARI		
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	ND(<0.200)	MG/L	9/13/2007	ARI		
Total Phosphorous	EPA-365.1	0.15	MG/L	9/13/2007	ARI		

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CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE TULALIP, WA 98271 DATE:

9/20/2007

CCIL JOB #:

0709008

DATE RECEIVED: WDOE ACCREDITATION #: 9/5/2007 C142

CLIENT CONTACT:

TOM GOBIN

CLIENT SAMPLE ID:

CLIENT PROJECT ID: 2007EFFWQ 9/5/2007

B-5

CCIL SAMPLE #:

DATA RESULTS						
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY	
pH	SM-4500-H	6.3	pH UNITS	9/5/2007	HJK	
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	ND(<0.14) ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	9/6/2007 9/6/2007 9/6/2007	CEO CEO	
Conductivity	EPA-120.1	110	UMHOS/CM	9/19/2007	DLC	
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.18 ND(<0.200) 0.14	MG/L MG/L MG/L	9/7/2007 9/13/2007 9/13/2007	ARI ARI ARI	

[&]quot;"ND" INDICATES ANALYZE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

8620 Holly Drive Suite 100

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

9/20/2007

8802 27TH AVE NE TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED: 0709008 9/5/2007

WDOE ACCREDITATION #:

C142

CLIENT CONTACT:

TOM GOBIN

CLIENT PROJECT ID: 2007EFFWQ CLIENT SAMPLE ID: 9/5/2007

PLANT

CCIL SAMPLE #:

-07

DATA RESULTS							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
рН	SM-4500-H	7.5	pH UNITS	9/5/2007	HJK		
Nitrate	EPA-300.0	0.87	MG/L	9/6/2007	CEO		
Nitrite	EPA-300.0	0.84	MG/L	9/6/2007	CEO		
Phosphate	EPA-300.0	100	MG/L	9/6/2007	CEO		
Conductivity	EPA-120.1	1100	UMHOS/CM	9/19/2007	DLC		
Ammonia	EPA-350.1	52	MG/L	9/7/2007	ARI		
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	57	MG/L	9/13/2007	ARI		
Total Phosphorous	EPA-365.1	22	MG/L	9/13/2007	ARI		

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CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

10/18/2007

8802 27TH AVE NE TULALIP, WA 98271 CCIL JOB #:

0710022

DATE RECEIVED: WDOE ACCREDITATION #: 10/4/2007 C1336

CLIENT CONTACT:

TOM GOBIN

CLIENT SAMPLE ID:

CLIENT PROJECT ID: 2007EFFWQ 10/4/2007 10:00 N-7

CCIL SAMPLE #:

-01

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pH	SM-4500-H	5.6	pH UNITS	10/4/2007	ZD			
Nitrate	EPA-300.0	180	MG/L	10/4/2007	CEO			
Nitrite	EPA-300.0	ND(<0.15)	MG/L	10/4/2007	CEO			
Phosphate	EPA-300.0	ND(<0.07)	MG/L	10/4/2007	CEO			
Conductivity	EPA-120.1	810	UMHOS/CM	10/11/2007	CEO			
Ammonia	EPA-350.1	0.012	MG/L	10/5/2007	ARI			
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	ND(<0.200)	MG/L	10/10/2007	ARI			
Total Phosphorous	EPA-365.1	0.064	MG/L	10/8/2007	ARI			

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CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

10/18/2007

8802 27TH AVE NE

CCIL JOB #:

0710022

TULALIP, WA 98271

DATE RECEIVED: WDOE ACCREDITATION #: 10/4/2007 C1336

CLIENT CONTACT:

TOM GOBIN

CLIENT PROJECT ID: 2007EFFWQ

CLIENT SAMPLE ID:

10/4/2007 9:45 N-8

CCIL SAMPLE #:

-02

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pH	SM-4500-H	6.1	pH UNITS	10/4/2007	ZD			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	210 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	10/4/2007 10/4/2007 10/4/2007	CEO CEO			
Conductivity	EPA-120.1	850	UMHOS/CM	10/11/2007	CEO			
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.020 ND(<0.200) 0.042	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI			

[&]quot;"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

10/18/2007

8802 27TH AVE NE TULALIP, WA 98271 CCIL JOB #:

0710022

DATE RECEIVED: WDOE ACCREDITATION #: 10/4/2007 C1336

CLIENT CONTACT: TOM GOBIN CLIENT PROJECT ID: 2007EFFWQ

CLIENT SAMPLE ID:

10/4/2007 9:35 N-9

CCIL SAMPLE #: -03

DATA RESULTS							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
pH	SM-4500-H	6.4	pH UNITS	10/4/2007	ZD		
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	29 0.97 0.67	MG/L MG/L MG/L	10/5/2007 10/5/2007 10/5/2007	CEO CEO		
Conductivity	EPA-120.1	750	UMHOS/CM	10/11/2007	CEO		
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.33 0.84 0.44	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI		

[&]quot;"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE TULALIP, WA 98271 DATE:

10/18/2007

CCIL JOB #: DATE RECEIVED:

0710022 10/4/2007

WDOE ACCREDITATION #:

C1336

CLIENT CONTACT: TOM GOBIN CLIENT PROJECT ID: 2007EFFWQ

CLIENT SAMPLE ID: 10/4/2007 10:50 C-1

CCIL SAMPLE #:

-04

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
рН	SM-4500-H	6.8	pH UNITS	10/4/2007	ZD			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	5.0 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	10/5/2007 10/5/2007 10/5/2007	CEO CEO			
Conductivity	EPA-120.1	130	UMHOS/CM	10/11/2007	CEO			
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.066 0.85 0.065	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI			

[&]quot;"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES.

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

10/18/2007

8802 27TH AVE NE TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED: 0710022

WDOE ACCREDITATION #:

10/4/2007 C1336

CLIENT CONTACT:

TOM GOBIN CLIENT PROJECT ID: 2007EFFWQ

CLIENT SAMPLE ID:

10/4/2007 11:01 C-2

CCIL SAMPLE #:

-05

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pН	SM-4500-H	6.9	pH UNITS	10/4/2007	ZD			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	0.69 ND(<0.15) 2.7	MG/L MG/L MG/L	10/5/2007 10/5/2007 10/5/2007	CEO CEO			
Conductivity	EPA-120.1	760	UMHOS/CM	10/11/2007	CEO			
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	37 38 2.7	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI			

[&]quot;"ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

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CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

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8802 27TH AVE NE TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED: 0710022

WDOE ACCREDITATION #:

10/4/2007 C1336

CLIENT CONTACT:

TOM GOBIN

CLIENT PROJECT ID: 2007EFFWQ CLIENT SAMPLE ID:

10/4/2007 10:20 B-3

CCIL SAMPLE #:

-06

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pН	SM-4500-H	6.7	pH UNITS	10/4/2007	ZD			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	4.9 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	10/5/2007 10/5/2007 10/5/2007	CEO CEO			
Conductivity	EPA-120.1	41	UMHOS/CM	10/11/2007	CEO			
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.057 ND(<0.200) 0.15	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI			

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CLIENT: QUIL CEDA VILLAGE UTILITIES

DATE:

10/18/2007

8802 27TH AVE NE TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED: 0710022

WDOE ACCREDITATION #:

10/4/2007 C1336

CLIENT CONTACT:

TOM GOBIN

CLIENT PROJECT ID: 2007EFFWQ

CLIENT SAMPLE ID:

10/4/2007 10:35 B-5

CCIL SAMPLE #:

-07

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
рН	SM-4500-H	6.2	pH UNITS	10/4/2007	ZD			
Nitrate . Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	ND(<0.14) ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	10/5/2007 10/5/2007 10/5/2007	CEO CEO			
Conductivity	EPA-120.1	100	UMHOS/CM	10/11/2007	CEO			
Ammonia Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-350.1 EPA-351.1 EPA-365.1	0.23 0.26 0.081	MG/L MG/L MG/L	10/5/2007 10/10/2007 10/8/2007	ARI ARI ARI			

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CLIENT: QUIL CEDA VILLAGE UTILITIES

8802 27TH AVE NE TULALIP, WA 98271 DATE:

10/18/2007

CCIL JOB #:

0710022

DATE RECEIVED: WDOE ACCREDITATION #: 10/4/2007 C1336

CLIENT CONTACT: CLIENT PROJECT ID: 2007EFFWQ

TOM GOBIN

CLIENT SAMPLE ID:

10/4/2007 11:15 PLANT

CCIL SAMPLE #: -08

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
рН	SM-4500-H	7.1	pH UNITS	10/4/2007	ZD			
Nitrate	EPA-300.0	2.3	MG/L	10/5/2007	CEO			
Nitrite	EPA-300.0	1.2	MG/L	10/5/2007	CEO			
Phosphate	EPA-300.0	ND(<0.07)	MG/L	10/5/2007	CEO			
Conductivity	EPA-120.1	510	UMHOS/CM	10/11/2007	CEO			
Ammonia	EPA-350.1	4.6	MG/L	10/5/2007	ARI			
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	4.9	MG/L	10/10/2007	ARI			
Total Phosphorous	EPA-365.1	0.19	MG/L	10/8/2007	ARI			

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CLIENT: TULALIP TRIBES

8802 27TH AVE TULALIP, WA 98271 DATE:

8/14/2007

CCIL JOB #:

0707140

DATE RECEIVED: WDOE ACCREDITATION #: 7/31/2007 C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

N-7

CCIL SAMPLE #:

-05

DATA RESULTS - In the later of								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pH	SM-4500-H	5.7	pH UNITS	7/31/2007	CEO			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	37 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	7/31/2007 7/31/2007 7/31/2007	CEO CEO			
Conductivity	EPA-120.1	430	UMHOS/CM	8/7/2007	НЈК			
Ammonia	EPA-350.1	0.015	MG/L	8/2/2007	ARI			
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	0.21 0.032	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI			

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CLIENT: TULALIP TRIBES

8802 27TH AVE TULALIP, WA 98271 DATE:

8/14/2007

CCIL JOB #: DATE RECEIVED: 0707140

WDOE ACCREDITATION #:

7/31/2007 C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

N-8

CCIL SAMPLE #:

-06

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ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
PΗ	SM-4500-H	5.9	pH UNITS	7/31/2007	CEO
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	30 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	8/1/2007 8/1/2007 8/1/2007	CEO CEO
Conductivity	EPA-120.1	520	UMHOS/CM	8/7/2007	HJK
Ammonia	EPA-350.1	0.012	MG/L	8/2/2007	ARI
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	0.28 0.021	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI

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CLIENT: TULALIP TRIBES

8802 27TH AVE

TULALIP, WA 98271

DATE:

8/14/2007

CCIL JOB #:

0707140

DATE RECEIVED: WDOE ACCREDITATION #: 7/31/2007 C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

N-9

CCIL SAMPLE #:

-07

DATA RESULTS (Figure 1) The Property of the DATA RESULTS (Figure 1) The Property of the Proper							
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY		
pH	SM-4500-H	5.9	pH UNITS	7/31/2007	CEO		
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	28 0.48 ND(<0.07)	MG/L MG/L MG/L	8/1/2007 8/1/2007 8/1/2007	CEO CEO		
Conductivity	EPA-120.1	500	UMHOS/CM	8/7/2007	HJK		
Ammonia	EPA-350.1	0.39	MG/L	8/2/2007	ARI		
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	1.2 0.18	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI		

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CLIENT: TULALIP TRIBES

8802 27TH AVE

TULALIP, WA 98271

DATE:

8/14/2007

CCIL JOB #:

0707140

DATE RECEIVED: WDOE ACCREDITATION #: 7/31/2007 C142

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TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID: 7/31/2007

C-1

CCIL SAMPLE #:

-03

DATA RESULTS					
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
pH	SM-4500-H	6.4	pH UNITS	7/31/2007	CEO
Nitrate	EPA-300.0	33	MG/L	7/31/2007	CEO
Nitrite	EPA-300.0	0.37	MG/L	7/31/2007	CEO
Phosphate	EPA-300.0	0.76	MG/L	7/31/2007	CEO
Conductivity	EPA-120.1	460	UMHOS/CM	8/7/2007	HJK
Ammonia	EPA-350.1	0.014	MG/L	8/2/2007	ARI
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	0.34	MG/L	8/10/2007	ARI
Total Phosphorous	EPA-365.1	0.070	MG/L	8/8/2007	ARI

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CLIENT: TULALIP TRIBES

8802 27TH AVE

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7/31/2007

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CLIENT CONTACT:

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CLIENT SAMPLE ID:

7/31/2007

C-2

CCIL SAMPLE #:

-04

	DATA R	ESULTS			
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
pH	SM-4500-H	6.8	pH UNITS	7/31/2007	CEO
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	2.5 ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	7/31/2007 7/31/2007 7/31/2007	CEO CEO CEO
Conductivity	EPA-120.1	170	UMHOS/CM	8/7/2007	HJK
Ammonia	EPA-350.1	0.066	MG/L	8/2/2007	ARI
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	1.1 0.091	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI

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^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CLIENT: TULALIP TRIBES

8802 27TH AVE

DATE:

8/14/2007

TULALIP, WA 98271

CCIL JOB #: DATE RECEIVED:

0707140 7/31/2007

WDOE ACCREDITATION #:

C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

B-3

CCIL SAMPLE #:

-01

	DATAR	DATA RESULTS				
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY	
pH	SM-4500-H	6.1	pH UNITS	7/31/2007	CEO	
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	ND(<0.14) ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	7/31/2007 7/31/2007 7/31/2007	CEO CEO CEO	
Conductivity	EPA-120.1	120	UMHOS/CM	8/7/2007	HJK	
Ammonia	EPA-350.1	0.15	MG/L	8/2/2007	ARI	
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	0.85 0.22	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI	

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CLIENT: TULALIP TRIBES

8802 27TH AVE TULALIP, WA 98271

DATE: CCIL JOB #: 8/14/2007

DATE RECEIVED:

0707140 7/31/2007

WDOE ACCREDITATION #:

C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

B-5

CCIL SAMPLE #:

-02

DATA RESULTS								
ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY			
pH	SM-4500-H	6.2	pH UNITS	7/31/2007	CEO			
Nitrate Nitrite Phosphate	EPA-300.0 EPA-300.0 EPA-300.0	ND(<0.14) ND(<0.15) ND(<0.07)	MG/L MG/L MG/L	7/31/2007 7/31/2007 7/31/2007	CEO CEO			
Conductivity	EPA-120.1	110	UMHOS/CM	8/7/2007	HJK			
Ammonia	EPA-350.1	0.016	MG/L	8/2/2007	ARI			
Total Kjeldahl Nitrogen (TKN) Total Phosphorous	EPA-351.1 EPA-365.1	0.57 0.079	MG/L MG/L	8/10/2007 8/8/2007	ARI ARI			

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CLIENT: TULALIP TRIBES

8802 27TH AVE TULALIP, WA 98271 DATE:

8/14/2007

CCIL JOB #:

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DATE RECEIVED: WDOE ACCREDITATION #: 7/31/2007 C142

CLIENT CONTACT:

TOM MCKINSEY CLIENT PROJECT ID: NONE GIVEN

CLIENT SAMPLE ID:

7/31/2007

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CCIL SAMPLE #:

-08

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ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
pH	SM-4500-H	6.4	pH UNITS	7/31/2007	CEO
Nitrate	EPA-300.0	21	MG/L	8/1/2007	CEO
Nitrite	EPA-300.0	ND(<0.15)	MG/L	8/1/2007	CEO
Phosphate	EPA-300.0	9.1	MG/L	8/1/2007	CEO
Conductivity	EPA-120.1	530	UMHOS/CM	8/7/2007	HJK
Ammonia	EPA-350.1	0.11	MG/L	8/2/2007	ARI
Total Kjeldahl Nitrogen (TKN)	EPA-351.1	1.7	MG/L	8/10/2007	ARI
Total Phosphorous	EPA-365.1	2.6	MG/L	8/8/2007	ARI

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